

Please type a plus sign (+) inside this box [+]

PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42.P16639

(maximum 12 characters)

First Named Inventor Qing Ma

Title: SIZE SCALING OF FILM BULK ACOUSTIC RESONATOR (FBAR) FILTERS
USING IMPEDANCE TRANSFORMER (IT) OR BALUN

Express Mail Label No. EV320119254US



ADDRESS TO: Mail Stop New Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. XX Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. _____ Applicant Claims Small Entity Status. (37 CFR 1.27)
3. XX Specification (Total Pages 18)
(preferred arrangement set forth below)
 - Descriptive Title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference sequence listing, a table,
or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. XX Drawings(s) (35 USC 113) (Total Sheets 6)
5. XX Oath or Declaration (Total Pages 5)
 - a. XX Newly Executed (Original or Copy)
 - b. _____ Copy from a Prior Application (37 CFR 1.63(d))
(for Continuation/Divisional with Box 17 completed)
 - i. _____ DELETIONS OF INVENTOR(S) Signed statement attached deleting
inventor(s) named in the prior application, see 37 CFR 1.63(d)(2)
and 1.33(b).
 - c. _____ Unsigned.
6. _____ Application Data Sheet. (37 CFR 1.76)
7. _____ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. _____ Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. _____ Computer Readable Form (CRF)
 - b. _____ Specification Sequence Listing on:
 - i. _____ CD-ROM or CD-R (2 copies); or
 - ii. _____ paper

ACCOMPANYING APPLICATION PARTS

- | | | |
|-----|---------------|--|
| 9. | <u>XX</u> | Assignment Papers (cover sheet & documents(s)) |
| 10. | <u> </u> | a. Separate 37 CFR 3.73(b) Statement (where there is an assignee) |
| | <u>XX</u> | b. Power of Attorney |
| 11. | <u> </u> | English Translation Document (if applicable) |
| 12. | <u> </u> | a. Information Disclosure Statement (IDS)/PTO-1449 |
| | <u> </u> | b. Copies of IDS Citations |
| 13. | <u> </u> | Preliminary Amendment |
| 14. | <u>XX</u> | Return Receipt Postcard (MPEP 503) (Should be specifically itemized) |
| 15. | <u> </u> | Certified Copy of Priority Document(s) (if foreign priority is claimed) |
| 16. | <u> </u> | Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). <u>Applicant must attach form PTO/SB/35 or its equivalent.</u> |
| 17. | <u>XX</u> | Other: separate sheet with title, express mail label, copy of postcard and attorney's signature |

18A. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

____ Continuation Of Prior Application No.: ____ Divisional Examiner ____ Continuation-in-part (CIP) Group Art Unit

(which is a ____ continuation/ ____ divisional/ ____ CIP of prior application no. _____,
(which is a ____ continuation/ ____ divisional/ ____ CIP of prior application no. _____) (List entire chain of priority)

For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18B. Statement under 37 CFR 3.73(b) for continuing application:

The undersigned states that _____ (name of assignee) is the assignee of the entire right, title, and interest in the accompanying patent application by virtue of an assignment recorded in the Patent and Trademark Office at Reel No. _____ Frame No. _____ (or a copy of which is attached).

19. Correspondence Address

_____ Customer Number or Bar Code Label
or
_____ (Insert Customer No. or Attach Bar Code Label here)

| | |
|----------|------------------------------|
| X | Correspondence Address Below |
|----------|------------------------------|

NAME Todd M. Becker

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

ADDRESS 12400 Wilshire Boulevard

Seventh Floor

CITY Los Angeles

STATE California

ZIP CODE 90025-1026

Country U.S.A.

TELEPHONE (206) 292-8600

FAX (206) 292-8606

Name (PRINT/TYPE): Todd M. Becker

Registration Number: 43,487

Signature:

Dat : 10-31-03

FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 1292.00

Complete if Known:

Application No. 42.P16639Filing Date October 31, 2003First Named Inventor Qing MaExaminer Name Not yet assignedArt Unit Not yet assignedAttorney Docket No. 42.P16639☐ Applicant claims small entity status. See 37 CFR 1.27.**METHOD OF PAYMENT** (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit AccountDeposit Account Number : 02-2666

Deposit Account Name: _____

☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:☐ Charge fee(s) indicated below.☒ Credit any overpayments.☒ Charge any additional fees during the pendency of this application.☒ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.☐ Charge fee(s) indicated below except for the filing fee.**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity | | Small Entity | | Fee Description | Fee Paid |
|-----------------|----------|--------------|----------|------------------------------------|------------|
| Code | Fee (\$) | Code | Fee (\$) | | |
| 1001 | 770 | 2001 | 385 | Utility application filing fee | <u>770</u> |
| 1002 | 340 | 2002 | 170 | Design application filing fee | _____ |
| 1003 | 530 | 2003 | 265 | Plant filing fee | _____ |
| 1004 | 770 | 2004 | 385 | Reissue filing fee | _____ |
| 1005 | 160 | 2005 | 80 | Provisional application filing fee | _____ |
| SUBTOTAL (1) \$ | | | | | <u>770</u> |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | | Extra Claims | | Fee from below | | Fee Paid |
|--------------------|-----------|--------------|-----------|----------------|--------------|------------|
| | | | | | | |
| Total Claims | <u>42</u> | - 20** = | <u>22</u> | X | <u>396</u> = | <u>396</u> |
| Independent Claims | <u>4</u> | - 3** = | <u>1</u> | X | <u>86</u> = | <u>86</u> |
| Multiple Dependent | | | | | = | <u>0</u> |

**Or number previously paid, if greater; For Reissues, see below.

| Large Entity | | Small Entity | | Fee Description |
|--------------|----------|--------------|----------|---|
| Code | Fee (\$) | Code | Fee (\$) | |
| 1202 | 18 | 2202 | 9 | Claims in excess of 20 |
| 1201 | 86 | 2201 | 43 | Independent claims in excess of 3 |
| 1203 | 290 | 2203 | 145 | Multiple dependent claim, if not paid |
| 1204 | 86 | 2204 | 43 | **Reissue independent claims over original patent |
| 1205 | 18 | 2205 | 9 | **Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) \$ 482

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

| Large Entity | | Small Entity | | Fee Description | Fee Paid |
|---------------------------|----------|--------------|----------|--|----------|
| Fee Code | Fee (\$) | Fee Code | Fee (\$) | | |
| 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 | 130 | 1053 | 130 | Non-English specification | |
| 1812 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | |
| 1813 | 8,800 | 1813 | 8,800 | Request for inter parties reexamination | |
| 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1252 | 420 | 2252 | 210 | Extension for reply within second month | |
| 1253 | 950 | 2253 | 475 | Extension for reply within third month | |
| 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth month | |
| 1255 | 2,010 | 2255 | 1,005 | Extension for reply within fifth month | |
| 1401 | 330 | 2401 | 165 | Notice of Appeal | |
| 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal | |
| 1403 | 290 | 2403 | 145 | Request for oral hearing | |
| 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional | |
| 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | |
| 1502 | 480 | 2502 | 240 | Design issue fee | |
| 1503 | 640 | 2503 | 320 | Plant issue fee | |
| 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | 40 |
| 1809 | 770 | 2809 | 385 | For filing a submission after final rejection (see 37 CFR 1.129(a)) | |
| 1814 | 110 | 2814 | 55 | Statutory Disclaimer | |
| 1810 | 770 | 2810 | 385 | For each additional invention to be examined (see 37 CFR 1.129(b)) | |
| 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | |
| 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |
| 1504 | 300 | 1504 | 300 | Publication fee for early, voluntary, or normal pub. | |
| 1505 | 300 | 1505 | 300 | Publication fee for republication | |
| 1803 | 130 | 1803 | 130 | Request for voluntary publication or republication | |
| 1808 | 130 | 1808 | 130 | Processing fee under 37 CFR 1.17(i) (except provisionals) | |
| 1454 | 1,330 | 1454 | 1,330 | Acceptance of unintentionally delayed claim for priority | |
| Other fee (specify) _____ | | | | | |
| Other fee (specify) _____ | | | | | |
| SUBTOTAL (3) \$ | | | | | 40 |

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:

Typed or Printed Name: Todd M. Becker
 Signature: *Todd M. Becker* Date: 10-31-03
 Reg. Number: 43,487 Telephone Number: 206-292-8600

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Our Reference: 42.P16639

Patent

TITLE

SIZE SCALING OF FILM BULK ACOUSTIC RESONATOR (FBAR) FILTERS USING
IMPEDANCE TRANSFORMER (IT) OR BALUN

Inventors: Qing Ma and Dong S. Shim

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP



Todd M. Becker
Reg. No. 43,487

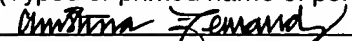
"Express Mail" mailing label number: EV320119254US

Date of Deposit: October 31, 2003

I hereby certify that I am causing this paper or fee to be deposited with
the United States Postal Service "Express Mail Post Office to Addressee"
service on the date indicated above and that this paper or fee has been
addressed to the Mail Stop New Application, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450

Christina Fernandez

(Typed or printed name of person mailing paper or fee)

 October 31, 2003

(Signature of person mailing paper or fee)

(Date signed)